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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/658,297	09/10/2003	Myeon-soon Hwang	1572.1157	2457
21171 75	90 04/07/2005		EXAM	INER
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			PENG, CHARLIE YU	
			ART UNIT	PAPER NUMBER
			2883	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/658,297	HWANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Charlie Peng	2883			
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. If the period for reply specified above is less than thirty (30) dated the period for reply is specified above, the maximum statutor. Failure to reply within the set or extended period for reply will, I Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION.  'CFR 1.136(a). In no event, however, may a atton.  ys, a reply within the statutory minimum of thir y period will apply and will expire SIX (6) MON by statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed or	n				
2a) This action is <b>FINAL</b> . 2b)	☑ This action is non-final.				
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) <u>1-36</u> is/are pending in the applied 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) <u>1-4,10,12-16,22,24-29 and 35</u> 7) ⊠ Claim(s) <u>5-11,17-21,23,30-34 and 36</u> is/8) □ Claim(s) are subject to restriction	vithdrawn from consideration. is/are rejected. /are objected to.				
Application Papers					
9)☐ The specification is objected to by the Ex 10)☒ The drawing(s) filed on 10 September 20 Applicant may not request that any objection Replacement drawing sheet(s) including the 11)☐ The oath or declaration is objected to by	003 is/are: a)⊠ accepted or b)[ on to the drawing(s) be held in abeyale correction is required if the drawing	nce. See 37 CFR 1.85(a). I(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 			

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### **DETAILED ACTION**

#### Election/Restrictions

The application was previously subjected to requirement for restriction. The Applicants traversed the requirement for restriction. The Examiner *disagrees* with the Applicants on their reasoning for traversing the restriction, but this is nonetheless rendered moot by virtue of the Applicants' amending the claims in Invention II to place them in the same group as Invention I. Group I has been elected by the Applicants. All claims will be examined as amended. The Applicants are reminded that the office generally does not permit the applicant to shift to claiming another invention after an election is made and action given on the elected subject matter. (MPEP 819)

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1- 4, 12-16, and 24-29 are rejected under 35 U.S.C.§103(a) as being anticipated by U.S. PGPub 2002/0064354 to Ware et al. in view of U.S. Patent 5,946,986. Ware teaches a fiber preparation unit **100** which includes a main body **101** (a plate that acts as the base of the unit, see at least **Figs. 1A-1C** and **[0026]-[0035]**), a

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carriage 104 (jig) able to slide along on the main body, and an optical fiber 105 coupled to the carriage via a fiber holder. Ware also teaches a cleaving station 103 proximate to the carriage on the main body to cleave the optical fiber. The unit also includes a stripping station 102 (stripper) proximate to the carriage. The stripping station further includes a cleaning device 106 for cleaning the tip of the stripped optical fiber. Ware does not teach the details of the stripping station, but the stripping station may include any type of optical fiber stripping devices such as ones in accordance with U.S. Patent 5,946,986 (or 6,023,996, both to Dodge et al.), which use a heating element to strip off the coating in one piece as the carriage is moved. It would have been obvious to one having ordinary skill in the art at the time the invention was made to place a stripping station as taught by Dodge in the fiber preparation unit as taught by Ware. The motivation would be to soften the coating and then nicks it with a blade so that the coating can be pulled off more easily. Furthermore, Ware specifically stated that Dodge can be part of the invention. [0030]

With regard to claims 2, 3,14, 15, 27, and 28, Dodge further teaches the carriage to be configured to receive an optical fiber holder, which has a groove **48** and a holder **28** with a hinged cover **50** (See at least **Fig. 8** of 5,946,986).

With regard to claim 4, 16, and 29, Ware still further teaches the cleaning station **106** may operate by spraying a solvent (i.e. cleaner/alcohol) onto the optical fiber. A hole or orifice for injection is inherent to a spraying action.

With regard to claim 10, 22, and 35, Ware still further teaches translation of the carriage by sliding may be accomplished via a rail system by means of motors, as the

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stripping action occurs simultaneously to the translation of the carriage away from the stripping station. (See at least [0026]-[0027])

## Allowable Subject Matter

Claims 5, 17, and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Ware teaches the base plate, the sliding jib upon the base plate, the stripper, and the cleaver. Ware also teaches that the cleaver (cleaving station 103) may cleave optical fibers in multiple steps and may include any type of optical fiber cleaving device. Ware does not teach the cleaving station to have a gripper, a cutting wheel, and a compression block. Halpin teaches an optical fiber cleaver having a fiber connector block 103 (the gripper) that holds the fiber before and after cleaving, a scribe assembly 120 (the cutting wheel) that may have a scribing wheel 162 (Column 8) to be drawn perpendicularly across the optical fiber to make a scribed line (or a cleaved line), and a chuck assembly 112 (the compression block) that has an internal compression spring. However, Halpin teaches the optical fiber cleavage by tension (the fiber is pulled apart by the spring at the cleaved line) and not compression as claimed by the Applicants. The examiner finds no obvious reasons for one having ordinary skill in the art at the time the invention was made to combine and modify Ware and Halpin in order to arrive at the present application. It is the examiner's opinion that the prior art of record, taken alone or in combination, fails to

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disclose or render obvious in combination with the rest of the limitations of the base claim.

Claims 6-9, 18-21, and 31-34 are also objected to but allowable by virtue of being dependent upon claims 5, 17, and 30.

Referring to claims 11, 23, and 36, Dodge and Ware do not teach a driving unit having a motor, a timing pulley, and a cam used to operate the jig and the stripper. Nor do they teach a back-and-forth motion of the stripper while being operated by the motor. The Examiner further finds no prior art, taken alone or in combination with Dodge and Ware, disclosing all the limitations of said claims. It is the examiner's opinion that the prior art of record, taken alone or in combination, fails to disclose or render obvious in combination with the rest of the limitations of the base claim.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure dealing with optical fiber end preparation and cleaving.

- U.S. Patent 6,122,936 to Csipkes et al.;
- U.S. Patent 6,321,621 to Stepan;
- U.S. PGPub 2002/0145731 to Kirtler et al.;
- U.S. Patent 6,676,763 to Johnson, III et al.;
- U.S. Patent 6,668,128 to Hattori et al.;
- U.S. Patent 6,052,880 to Basavanhally;
- U.S. Patent 6,577,804 to Murakami et al.;
- U.S. Patent 6,099,392 to Wiegand et al.;

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U.S. Patent 6,816,662 to Doss et al.;

U.S. Patent 4,445,632 to Margolin et al.;

U.S. Patent 5,395,025 to Borer et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlie Peng whose telephone number is (571) 272-2177. The examiner can normally be reached on 8:30 am - 5 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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